

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Boiler Pro 1805**

Validation Date: 5/11/15

Company Identification:

U.S. Water Services

12270 43rd St NE

St. Michael, MN 55376 USA

Contact Information:

1-800-255-3924 (US & Canada Emergencies – CHEMTEL)

1-813-248-0585 (International Emergencies – CHEMTEL)

1-866-663-7632 (Non-emergency)

SDS@uswaterservices.com (email)

www.uswaterservices.com (web)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 3), H311

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Acute aquatic toxicity (Category 3), H402

PICTOGRAM/SYMBOL:



SIGNAL WORD: DANGER

HAZARD STATEMENTS - LABEL ELEMENTS

Health Hazards Statement(s)

H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H402	Harmful to aquatic life

Physical Hazards Statement(s)

H290	May be corrosive to metals
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Precautionary Statement(s) - Prevention

P264	Wash skin and contaminated clothing thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P260	Do not breathe dust, fume, gas, mist, vapors, spray
P280	Wear protective gloves, protective clothing, eye protection, face protection
P273	Avoid release to the environment

Precautionary Statement(s) - Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statement(s) - Storage

P405

Store locked up.

Precautionary Statement(s) - Disposal

P501

Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations

Hazards Not Otherwise Classified (HNOC)

Contact with acids liberates a toxic gas.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS Number	Weight %
Sodium Hydroxide	1310-73-2	10-15
Morpholine	110-91-8	1-5

>40% of mixture consists of ingredients of unknown toxicity. Exact percentages are withheld as trade secrets.

4. FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes, check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

SKIN CONTACT: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

INHALATION: Get medical aid immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

INGESTION: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.

NOTES TO PHYSICIAN: The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the usage of gastric lavage.

5. FIRE FIGHTING MEASURES

NOTE: Solid product. Product will melt and combustion may occur when exposed to fire.

General information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. May react with chemically active metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas.

Extinguishing Media: Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Do NOT use straight streams of water.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicates this is necessary. Use non-sparking tools and equipment. Sweep or shovel spilled materials into suitable containers. Dispose of in accordance with all local, state and federal requirements. Do not allow product or residues to enter waterway or any source of drinking water.

7. HANDLING AND STORAGE

HANDLING: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container. Do NOT use aluminum fittings or containers.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from oxidizing materials and acids. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

COMPONENT	CAS NUMBER	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA FINAL PEL TWA	IDLH
Sodium Hydroxide	1310-73-2	-	-	C 2 mg/m ³	2 mg/m ³	10mg/m ³
Morpholine	110-91-8	20 ppm (skin)	-	-	20 ppm	-

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure (29 CFR 1910.138 or EN 374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Solid
ODOR:	Mild
ODOR THRESHOLD:	No data available Tan to
COLOR:	Green/Brown
pH:	~11.5 @ 1%
FREEZING POINT:	No data available
BOILING POINT:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY:	No data available
FLAMMABILITY/EXPLOSIVE LIMIT:	No data available
AUTOIGNITION TEMPERATURE:	No data available
VAPOR PRESSURE:	No data available
VAPOR DENSITY:	No data available
DENSITY:	No data available

SOLUBILITY IN WATER:	Complete over time
PARTITION COEFFICIENT N-OCTANOL/WATER:	No data available
AUTOIGNITION TEMPERATURE:	No data available
DECOMPOSTION TEMPERATURE:	No data available

10. STABILITY AND REACTIVITY

STABILITY: The product is stable.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum, copper, brass, bronze, tin, nitrites.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sodium oxide, nitrogen oxides, sulfur dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicity: No data available for product.

CARCINOGENICITY

Product/Ingredient Name	ACGIH	IARC	NTP
Morpholine	A4	3	-

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: No Data Available For Product.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORTATION INFORMATION

U.S. DOT Bill of Lading Description: UN 1759, Corrosive solid, n.o.s. (sodium hydroxide, morpholine) 8,11.

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

U.S. REGULATIONS

CALIFORNIA PROPOSITION 65: This product contains a chemical(s) known to the state of California to cause birth defects, other reproductive harm or cancer (cobalt sulfate).

STATE RIGHT TO KNOW (RTK)

INGREDIENT(S)	CAS#	MA	NJ	PA	MN
Sodium Hydroxide	1310-73-2	X	X	X	X
Morpholine	110-91-8	X	X	X	X
Polyphosphoric acid, sodium salt	68915-31-9	-	X	X	-

CERCLA/SARA 302

INGREDIENT(S)	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium Hydroxide	1310-73-2	10-15	1000	-	-

SARA 311/312 Hazard Categories

Immediate:	X
Delayed:	X
Fire:	-
Reactivity:	-
Sudden Release of Pressure:	-

SARA 313:

None

Clean Air Act:

Not regulated.

Clean Water Act:

CAS No. 1310-73-2 is listed.

Other Information:

All active components conform to FDA title 21, Section 173.310 Boiler Water Additives. All inert component conform to FDA Section 21, CFR 184.1733 GRAS.

16. OTHER INFORMATION**Hazardous Material****Information System (U.S.A.)**

Health: 3

Flammability: 1

Physical Hazard: 0

National Fire Protection**Association (U.S.A.)**

Health: 3

Flammability: 1

Reactivity: 0

HMIS and NFPA use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

Date of Creation: 02/02**Issue Number: 5.4****Date of Revision: 5/11/2015****Prepared By:** Compliance Group

The information contained in this Safety Data Sheet is intended to comply with the requirements of 29CFR 1910.1200. This information is believed to be accurate and based on data available to APtech Group at this time. It is intended to be used as a guide to the safe handling and use by properly trained individuals. It is the end users responsibility to determine the suitability of the information for their particular purposes. This information is provided without warranty.